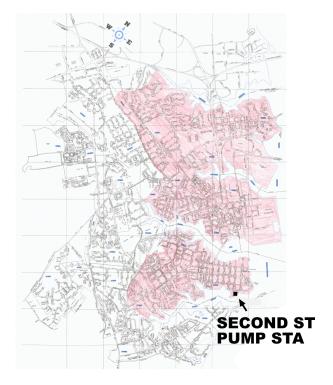# Second Street Pumping Station

Background

The Second Street Pumping Station is the largest sewage pumping station in Annapolis. It pumps an average daily flow of 3.25 million gallons per day (mgd), with the capability of handling a maximum peak flow of 8.5 mgd. Translated to gallons per minute (gpm), these rates are an average daily flow of 2,300 gpm with a maximum peak flow of 5,900 gpm. Keeping in mind that today's toilets use 1.6 gallons of water per flush, the station processes approximately 1,437 flushes per minute, 24 hours a day.

The Second Street Pumping Station handles sewage flow from approximately two thirds of the area of Annapolis, including West Annapolis, most of Admiral Heights, West Street, the Naval Academy, Germantown, Murray Hill, President's Hill, the entire downtown Annapolis area, and the majority of Eastport as shown by the pink area on the map.

The Second Street Pumping Station was originally constructed during the 1930s. The sewage is discharged from the station into a 24" diameter cast iron force main which runs under Back Creek from the Second Street Pumping Station to Bembe Beach Road, and ultimately to the Annapolis Water Reclamation Facility on Edgewood Road.

The most recent station upgrades include three new centrifugal pumps, equipped with variable speed drives to provide a more constant flow rate to the Annapolis Water Reclamation Facility. Flow peaks at the reclamation facility can cause operational difficulties, so eliminating these peaks helps to keep the plant operating efficiently. Improved efficiency at the plant improves the quality of the discharge from the plant to the Chesapeake Bay. An improved odor control system was also installed at the Second Street Pumping Station to enhance the air quality in and around the station.

Project Information

Project Manager:	Marcia Patrick (410) 263-7949	Project Cost:	$600,000
Design Consultant:	KCI Technologies, Inc.	Construction Notice to Proceed:	July, 2002
Contractor:	DSI, LLC	Construction Completion:	July, 2003